

# EUROPEAN PATENT CODE

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TITLE : TIAL-BASED COMPOSITE MATERIAL HAVING EXCELLENT STRENGTH AND ITS PRODUCTION

ABSTRACT : PURPOSE: To provide a composite material based on a TiAl intermetallic compd. and having fine grains, no internal defect and excellent strength by a reactive sintering method.

CONSTITUTION: A powdery Ti-Al mixture having a compsn. consisting of 35-50 atomic % Al and the balance Ti is prepd. and particles of one or more among  $TiB_2$ ,  $Al_2O_3$  and SiC having 0.05-20 $\mu$ m average particle diameter are added to the mixture by  $\leq 20$ vol.%. They are mixed and sintered by a reactive sintering method to obtain the objective TiAl-based composite material.

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